

CONTENTS

| | |
|---|-----|
| Kristall- und Molekülstruktur von D-Altritol ("D-Talitol") J. Kopf (Hamburg, B.R.D.), M. Bischoff, and P. Köll (Oldenburg, B.R.D.) | 1 |
| The crystal structure of cycloinulohexaose produced from inulin by cycloinulo-oligosaccharide fructanotransferase M. Sawada, T. Tanaka, Y. Takai, T. Hanafusa, T. Taniguchi, M. Kawamura and T. Uchiyama (Osaka, Japan) | 7 |
| ¹³ C-N.m.r. studies of the acetylation sequences in partially N-deacetylated chitins (chitosans) K. M. Vårum, M. W. Anthonsen, H. Grasdalen, and O. Smidsrød (Trondheim, Norway) | 19 |
| Conformational analysis of l-kestose by molecular mechanics and by n.m.r. spectroscopy A. L. Waterhouse, T. M. Calub, and A. D. French (New Orleans, LA, U.S.A.) | 29 |
| Proton and carbon chemical-shift assignments for 6-kestose and neokestose from two-dimensional n.m.r. measurements J. Liu, A. L. Waterhouse (New Orleans, LA, U.S.A.), and N. J. Chatterton (Logan, UT, U.S.A.) | 43 |
| Hydrogen fluoride-mediated synthesis of 1-thiotrehaloses involving reaction of D-glucose with hydrogen sulfide J. Defaye, A. Gadelle (Grenoble, France), and C. Pedersen (Lyngby, Denmark) | 51 |
| Synthesis of four diastereomeric octofuranoses from D-glucofuranurono-6,3-lactone via Grignard reactions K. Dax, M. Fechter, G. Gradnig, V. Grassberger, C. Illasiewicz, M. Ungerank, and A. E. Stütz (Graz, Austria) | 59 |
| Mechanism of formation of 2-furaldehyde from D-xylose M. J. Antal, Jr., T. Leesomboon, W. S. Mok (Honolulu, HI, U.S.A.), and G. N. Richards (Missoula, MT, U.S.A.) | 71 |
| Inclusion compounds in water: calorimetric and spectroscopic studies of the interaction of cyclomaltohexaose (α-cyclodextrin) with alkanols at 25° S. Andini, G. Castronuovo, V. Elia, and E. Gallotta (Naples, Italy) | 87 |
| The stepwise degradation of a glycosylated aldose. A potential method for sequencing branched oligosaccharides B. Jäger, H. Lay, J. Lehmann, and L. Ziser (Freiburg, F.R.G.) | 99 |
| Synthesis and Ca ²⁺ -release activity of D- and L-myo-inositol 2,4,5-trisphosphate and D- and L-chiro-inositol 1,3,4-trisphosphate W. Tegge, G. V. Denis, and C. E. Ballou (Berkeley, CA, U.S.A.) | 107 |
| Structure of the O-specific polysaccharide chain from <i>Klebsiella pneumoniae</i> O1K2 (NCTC 5055) lipopolysaccharide O. Kol, J. M. Wieruszkeski, G. Strecker, J. Montreuil, B. Fournet (Villeneuve d'Ascq, France), R. Zalisz, and P. Smets (Cergy-Pontoise, France) | 117 |

| | |
|---|-----|
| New features of plant-fructan structure revealed by methylation analysis and carbon-13 n.m.r. spectroscopy N. C. Carpita, T. L. Housley (West Lafayette, IN, U.S.A.), and J. E. Hendrix (Fort Collins, CO, U.S.A.) | 127 |
| Fructan chemical structure and sensitivity to an exohydrolase P. Bancal (Clermont Ferrand, France), C.A. Henson (Madison, WI, U.S.A.), J. P. Gaudillère (Pont de la Maye, France), and N. C. Carpita (West Lafayette, IN, U.S.A.) | 137 |
| Structural investigations of glucans from cultures of <i>Glomerella cingulata</i> Spaulding & von Schrenck K. Gomaa, J. Kraus, G. Franz (Regensburg, F. R. G.) and H. Röper (Vilvoorde, Belgium) | 153 |
| Structural studies of a polysaccharide isolated from the green seaweed <i>Chaetomorpha antennina</i> E. V. Rao and K. S. Ramana (Visakhapatnam, India) | 163 |
| The structure of the capsular polysaccharide from <i>Streptococcus pneumoniae</i> type 7B P.-E. Jansson, J. Lindberg, K. M. S. Wimalasiri (Stockholm, Sweden), and J. Henriksen (Copenhagen, Denmark) | 171 |
| Relationship between conformation and biological response for (1→3)- β -D-glucans in the activation of coagulation Factor G from limulus amebocyte lysate and host-mediated antitumor activity. Demonstration of single-helix conformation as a stimulant H. Saitô, Y. Yoshioka, N. Uehara, J. Aketagawa, S. Tanaka, and Y. Shibata (Tokyo, Japan) | 181 |
| The conversion of group B red blood cells into group O by an α -D-galactosidase from taro (<i>Colocasia esculenta</i>) S.-F. Chien and M. Lin-Chu (Tapei, Taiwan) | 191 |
| Maltodextrin acceptor reactions of <i>Streptococcus mutans</i> 6715 glucosyltransferases D. Fu and J. F. Robyt (Ames, IA, U.S.A.) | 201 |
| Determination of kinetic parameters for maltotriose and higher malto-oligosaccharides in the reactions catalyzed by α -D-glucan phosphorylase from potato T. Suganuma, J.-I. Kitazono, K. Yoshinaga, S. Fujimoto, and T. Nagahama (Kagoshima, Japan) | 213 |
| A ^1H - and ^{13}C -n.m.r. study of bromine-oxidised potato starch A.-C. B. Salomonsson, R. E. Andersson, L. J. Torneport and O. Theander (Uppsala, Sweden) | 221 |
| Determatan sulfate of porcine mucosal tissue. N.m.r. observations on its separation from heparin with the aid of heparinase, and its degradation by chondroitinase K. G. Ludwig-Baxter and A. S. Perlin (Montreal, Canada) | 227 |
| Formation of 1,2-O-(1,2-ethanediyl)- β -D-mannopyranose in a neighboring-group participation reaction of 2-O-(2-hydroxyethyl)-D-mannose M. J. Tomaszewski, K. R. Holme, and A. S. Perlin (Montreal, Canada) | 237 |
| Stereoselective reduction of <i>R</i> -(-)-carvone with sodium dithionite in the presence of cyclomaltoheptaose (β -cyclodextrin) and its heptakis (2,6-di-O-methyl) derivative R. Fornasier, F. Marcuzzi, M. Parmagnani and U. Tonellato (Padova, Italy) | 245 |
| Properties of hot-water-extractable amylose S. Hizukuri (Kagoshima, Japan) | 251 |
| Enzymic synthesis of <i>p</i> -nitrophenyl α -glucobiosides by use of native and immobilized rice α -glucosidase N. Asano, K. Tanaka, and K. Matsui (Kanazawa, Japan) | 255 |

| | |
|--|-----|
| Glycosides of 8-hydroxy-3,6-dioxaoctanal. A synthesis of a new spacer for synthetic oligosaccharides V. Verez-Bencomo, M. T. Campos-Valdes, J. R. Mariño-Albernas, V. Fernandez-Santana, M. Hernandez-Rensoli, and C. S. Perez-Martinez (Havana, Cuba) | 263 |
| <i>Author index</i> | c1 |
| <i>Subject index</i> | c3 |
| <i>Contents (Vol. 217)</i> | c5 |